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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	4
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Complete if Known

Application Number	09/843,545
Filing Date	April 26, 2001
First Named Inventor	Richard D. Harris
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	110003.97460

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RL		5,578,976		Yao	11/26/1996	
		5,761,350		Koh	6/2/1998	
		5,783,340		Farino et al.	7/21/1998	
		5,804,314		Field et al.	9/8/1998	
		5,903,380		Motamedi et al.	5/11/1999	
		5,959,516		Chang et al.	9/28/1999	
		5,995,688		Aksyuk et al.	11/30/1999	
		6,046,066		Fang et al.	4/4/2000	
		6,071,426		Lee et al.	6/6/2000	
		6,094,102		Chang et al.	7/25/2000	
		6,100,477		Randall et al.	8/8/2000	
		6,114,794		Dhuler et al.	9/5/2000	
		6,137,206		Hill	10/24/2000	
		6,159,385		Yao et al.	12/12/2000	
		6,188,322		Yao et al.	2/13/2001	
		6,232,841		Bartlett et al.	5/15/2001	
		6,232,847		Marcy, 5th et al.	5/15/2001	

FOREIGN PATENT DOCUMENTS

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Examiner
Signature

Robert P. Calvert

Date
Considered

6102/03

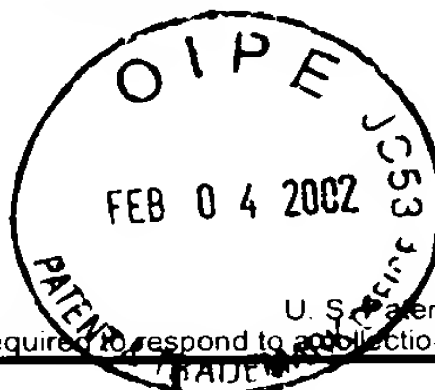
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[110003.97460]

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
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		First Named Inventor	Richard D. Harris
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		Examiner Name	
		Attorney Docket Number	110003.97460
Sheet	2	of	4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
RL	1	Toumazou, C. et al., n-step Charge Injection Cancellation Scheme for Very Accurate Switched Current Circuits, Electronic Letters, V.30 (9) 680-681: 1994.
	2	Emmerich, H., et al., A Novel Micromachined Magnetic-Field Sensor, MEMS 99 IEEE Conference, January 17-21, 1999, IEEE Catalog No. 99ch36291c.
	3	Madou, Marc, Fundamentals of Microfabrication, Chapters 2-4, CRC Press LLC, Boca Raton, FL: 1997.
	4	Kovacs, Gregory T.A., Micromachined Transducers Sourcebook, Table of Contents, pp. 77-119 and Index, WCB McGraw-Hill, U.S.A.: 1998.
	5	Teegarden, Darrell et al., How to Model and Simulate Microgyroscope Systems, IEEE Spectrum, 66-75, July 1998.
	6	Emmerich, Harald et al., Magnetic Field Measurements with a Novel Surface Micromachined Magnetic-Field Sensor, IEEE Transactions on Electron Devices, V. 47 (5) 972-977, May 2000.
	7	McGruer, N.E. et al., Electrostatically Actuated Microswitches; Scaling Properties, Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina, June 8-11, 1998, pp.132-135.
	8	Miyajima, Hiroshi et al., High-Aspect-Ratio Photolithography for MEMS Applications, J. of Microelectromechanical Sys., V.4(4) 220-229, Dec. 1995.
	9	Lu, Crist et al., A Monolithic Surface Micromachined Accelerometer with Digital Output, IEEE J. of Solid State Circuits, V. 30 (12) 1367-1373, Dec. 1995.
	10	Chen, Ming-Jer et al., Weak Inversion Charge Injection in Analog MOS Switches, IEEE J. of Solid-State Circuits, V. 30 (5) 604-606, May 1995.
	11	Lemkin, Mark A. et al., A Fully Differential Lateral S ² Accelerometer with Drift Cancellation Circuitry, Solid-State Sensor and Actuator Workshop, Hilton Head, South Carolina, June 2-6, 1996, pp. 90-93.

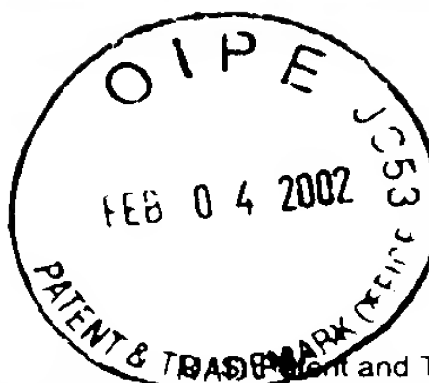
Examiner Signature	<i>Robert P. Culbert</i>	Date Considered	6/2/03
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		Group Art Unit	2812
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		Attorney Docket Number	110003.97460
Sheet	3	of	4

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
THL	12	Boser, Bernhard E. et al., Surface Micromachined Accelerometers, IEEE J. of Solid-State Circuits, V. 31 (3) 366-375, March 1996.	
	13	Fedder, Gary K. et al., Multimode Digital Control of a Suspended Polysilicon Microstructure, J. of Microelectromechanical Sys., V. 5 (4) 283-297, Dec. 1996.	
	14	Noriega, Gerardo, Sigma-Delta A/D Converters-Audio and Medium Bandwidths, Technical Notes-DT3 from RMS Instruments website: www.rmsinst.com, 6 pages, February 1996.	
	15	Internet page: Decimator Filter DLL, NeuroDimension Inc.: www.nd.com, May 31, 2001.	

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Examiner Signature	<i>Robert P. Culbert</i>	Date Considered	6/2/03
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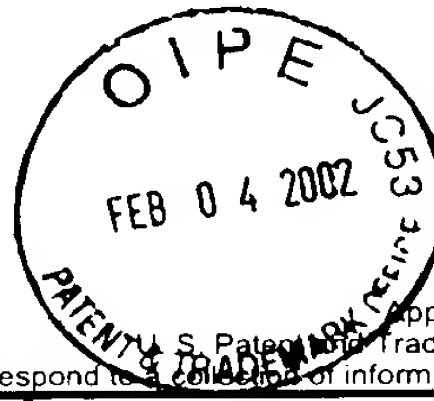
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		Attorney Docket Number	110003.97460
Sheet	4	of	4

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RL	1	U.S. Patent Application No.: 09/406,654, filed on September 27, 1999.	
	2	U.S. Patent Application No.: 09/400,125, filed on September 21, 1999.	
	3	U.S. Patent Application No.: 09/406,509, filed on September 28, 1999.	
	4	U.S. Patent Application No.: 09/955,493, filed on September 18, 2001.	
	5	U. S. Patent Application No.: 09/955,494, filed on September 18, 2001.	
	6	U.S. Patent Application No.: 09/675,861, filed on September 29, 2000.	

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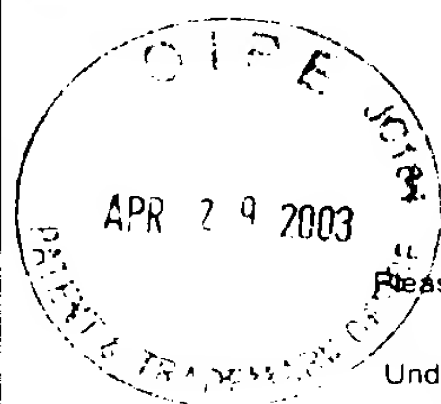
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[110003.97460]



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/843,545
		Filing Date	April 26, 2001
		First Named Inventor	Richard D. Harris
		Group Art Unit	2812
		Examiner Name	--
Sheet 1	of 4	Attorney Docket Number	110003.97460

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RL		3,886,447		Tanaka	05-27-1975	
		4,560,953		Bozio	12-24-1985	
		5,012,207		Edwards	4-30-1991	
		5,025,346		Tang, et al.	06-18-1991	
		5,194,819		Briefer	03-16-1993	
		5,243,861		Kloeck, et al.	09-14-1993	
		5,343,157		Deschamps	08-30-1994	
		5,359,893		Dunn	11-01-1994	
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		5,424,650		Frick	06-13-1995	
		5,536,988		Zhang, et al.	07-16-1996	
		5,563,343		Shaw, et al.	10-08-1996	
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		5,585,311		Ko	12-17-1996	
		5,600,190		Zettler	02-04-1997	
		5,646,432		Iwaki, et al.	07-08-1997	
		5,658,698		Yagi, et al.	08-19-1997	
		5,798,283		Montague, et al.	08-25-1998	
		5,815,051		Hamasaki, et al.	09-29-1998	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	<i>Robert P. Culbert</i>	Date Considered	2/6/03
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RL		5,877,038		Coldren, et al.	03-02-1999	
		5,920,978		Koshikawa, et al.	07-13-1999	
		5,943,155		Goossen	08-24-1999	
		5,959,516		Chang, et al.	09-28-1999	
		5,995,688		Aksyuk, et al.	11-30-1999	
		6,060,336		Wan	05-09-2000	
		6,094,102		Chang, et al.	07-25-2000	
		6,116,756		Peeters, et al.	09-12-2000	
		6,144,545		Lee, et al.	11-07-2000	
		6,149,190		Galvin, et al.	11-21-2000	
		6,170,332		MacDonald, et al.	01-09-2001	
		6,232,150		Lin, et al.	05-15-2001	
		6,257,705		Silverbrook	07-10-2001	
		6,265,238		Yaji, et al.	07-24-2001	
		6,307,169		Sun, et al.	10-23-2001	
		6,316,278		Jacobsen, et al.	11-13-2001	
		6,356,378		Huibers	03-12-2002	
		6,356,689		Greywall	03-12-2002	
		6,373,682		Goodwin-Johansson	04-16-2002	
		6,384,353		Huang, et al.	05-07-2002	

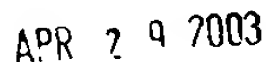
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<i>KL</i>		6,391,742		Kawai	05-21-2002	
<i>1</i>		6,400,009		Bishop, et al.	06-04-2002	
		5,491,604		Nguyen, et al.	02-13-1996	
		5,834,864		Hesterman, et al.	11-10-1998	
		5,955,932		Nguyen, et al.	09-21-1999	
		6,127,767		Lee, et al.	10-03-2000	
		6,188,322		Yao, et al.	02-13-2001	
		6,236,281		Nguyen, et al.	05-22-2001	
		6,411,214		Yao, et al.	06-25-2002	
		6,417,743		Mihailovich, et al.	07-09-2002	
		6,463,339		Vasko	10-08-2002	
		6,465,929		Leviton, et al.	10-15-2002	
		6,466,005		Yao, et al.	10-15-2002	
		6,497,141		Turner, et al.	12-24-2002	
		6,504,356		Yao, et al.	01-07-2003	
<i>KL</i>		2002/0017132		McNie, et al.	02-14-2002	

FOREIGN PATENT DOCUMENTS

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Examiner
Signature

Robert M. Calvert

Date

	Not Considered	Considered
1. The proposed project would require the construction of new buildings or structures.		
2. The proposed project would require the construction of new parking lots or other paved areas.		
3. The proposed project would require the construction of new roads or highways.		
4. The proposed project would require the construction of new bridges or culverts.		
5. The proposed project would require the construction of new water supply facilities.		
6. The proposed project would require the construction of new sewerage treatment plants.		
7. The proposed project would require the construction of new stormwater management facilities.		
8. The proposed project would require the construction of new flood control facilities.		
9. The proposed project would require the construction of new levees or dikes.		
10. The proposed project would require the construction of new coastal defense facilities.		
11. The proposed project would require the construction of new port facilities.		
12. The proposed project would require the construction of new airport facilities.		
13. The proposed project would require the construction of new rail facilities.		
14. The proposed project would require the construction of new transit facilities.		
15. The proposed project would require the construction of new utility facilities.		
16. The proposed project would require the construction of new telecommunications facilities.		
17. The proposed project would require the construction of new energy facilities.		
18. The proposed project would require the construction of new waste management facilities.		
19. The proposed project would require the construction of new hazardous waste management facilities.		
20. The proposed project would require the construction of new environmental remediation facilities.		
21. The proposed project would require the construction of new research and development facilities.		
22. The proposed project would require the construction of new manufacturing facilities.		
23. The proposed project would require the construction of new distribution facilities.		
24. The proposed project would require the construction of new retail facilities.		
25. The proposed project would require the construction of new service facilities.		
26. The proposed project would require the construction of new government facilities.		
27. The proposed project would require the construction of new educational facilities.		
28. The proposed project would require the construction of new cultural facilities.		
29. The proposed project would require the construction of new recreational facilities.		
30. The proposed project would require the construction of new health care facilities.		
31. The proposed project would require the construction of new social services facilities.		
32. The proposed project would require the construction of new community centers.		
33. The proposed project would require the construction of new libraries.		
34. The proposed project would require the construction of new museums.		
35. The proposed project would require the construction of new theaters.		
36. The proposed project would require the construction of new concert halls.		
37. The proposed project would require the construction of new sports stadiums.		
38. The proposed project would require the construction of new arenas.		
39. The proposed project would require the construction of new hotels.		
40. The proposed project would require the construction of new restaurants.		
41. The proposed project would require the construction of new bars.		
42. The proposed project would require the construction of new nightclubs.		
43. The proposed project would require the construction of new casinos.		
44. The proposed project would require the construction of new gaming facilities.		
45. The proposed project would require the construction of new entertainment venues.		
46. The proposed project would require the construction of new performing arts facilities.		
47. The proposed project would require the construction of new art galleries.		
48. The proposed project would require the construction of new studios.		
49. The proposed project would require the construction of new recording studios.		
50. The proposed project would require the construction of new television stations.		
51. The proposed project would require the construction of new radio stations.		
52. The proposed project would require the construction of new news organizations.		
53. The proposed project would require the construction of new media companies.		
54. The proposed project would require the construction of new advertising agencies.		
55. The proposed project would require the construction of new public relations firms.		
56. The proposed project would require the construction of new marketing firms.		
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60. The proposed project would require the construction of new engineering firms.		
61. The proposed project would require the construction of new architectural firms.		
62. The proposed project would require the construction of new interior design firms.		
63. The proposed project would require the construction of new landscaping firms.		
64. The proposed project would require the construction of new pest control firms.		
65. The proposed project would require the construction of new cleaning services.		
66. The proposed project would require the construction of new security services.		
67. The proposed project would require the construction of new maintenance services.		
68. The proposed project would require the construction of new janitorial services.		
69. The proposed project would require the construction of new groundskeeping services.		
70. The proposed project would require the construction of new snow removal services.		
71. The proposed project would require the construction of new tree services.		
72. The proposed project would require the construction of new lawn care services.		
73. The proposed project would require the construction of new irrigation services.		
74. The proposed project would require the construction of new fertilization services.		
75. The proposed project would require the construction of new weed control services.		
76. The proposed project would require the construction of new soil testing services.		
77. The proposed project would require the construction of new water testing services.		
78. The proposed project would require the construction of new air quality testing services.		
79. The proposed project would require the construction of new noise testing services.		
80. The proposed project would require the construction of new vibration testing services.		
81. The proposed project would require the construction of new geotechnical testing services.		
82. The proposed project would require the construction of new structural testing services.		
83. The proposed project would require the construction of new material testing services.		
84. The proposed project would require the construction of new environmental monitoring services.		
85. The proposed project would require the construction of new data collection services.		
86. The proposed project would require the construction of new data analysis services.		
87. The proposed project would require the construction of new software development services.		
88. The proposed project would require the construction of new IT support services.		
89. The proposed project would require the construction of new network management services.		
90. The proposed project would require the construction of new cloud computing services.		
91. The proposed project would require the construction of new mobile app development services.		
92. The proposed project would require the construction of new web development services.		
93. The proposed project would require the construction of new database management services.		
94. The proposed project would require the construction of new system integration services.		
95. The proposed project would require the construction of new disaster recovery services.		
96. The proposed project would require the construction of new business continuity services.		
97. The proposed project would require the construction of new risk assessment services.		
98. The proposed project would require the construction of new compliance services.		
99. The proposed project would require the construction of new legal services.		
100. The proposed project would require the construction of new financial services.		

4/2/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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